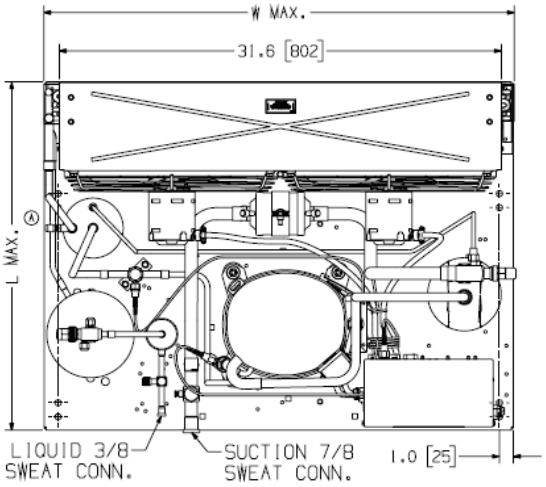
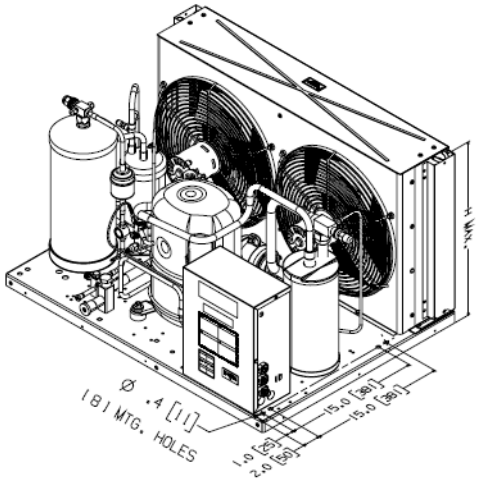
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWA9514ZXNXF **BoM: 2B3266-1** **R-404A** **1.75 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWA9514ZXNXF	25.0	33.5	19.5	14.7	7/8" S	3/8" S	16.46 lbs	1800	38.5	190
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.2	8300	1750	93	6400	1620	101	5300	1560	110	4700	1550	120
-5	28.1	9200	1830	94	7400	1740	103	6200	1690	112	5400	1680	121
0	32.8	10300	1910	96	8500	1860	105	7200	1830	113	6200	1810	123
5	37.9	11500	2000	97	9700	1980	106	8300	1960	115	7100	1950	124
10	43.3	12800	2090	99	11100	2100	108	9500	2090	117	8200	2090	126
15	49.1	14300	2190	101	12500	2210	110	10800	2230	119	9300	2230	127
20	55.5	15900	2280	103	14100	2330	112	12200	2360	121	10500	2370	129
25	62.2	1770	2390	105	15700	2450	114	13800	2490	123	11800	2510	131
30	69.5	19600	2490	108	17500	2570	116	15400	2620	125	13300	2650	133
35	77.2	21700	2600	110	19400	2690	119	17100	2750	127	14800	2800	135
40	85.5	23900	2710	112	21400	2810	121	18900	2880	129	16400	2940	137
45	94.3	26200	2830	115	23500	2920	123	20800	3010	131	18100	3090	139

60 Hz Performance

Return gas temp. 40°F Evaporator Temp. 20°F or less, 5°F sub-cooling
Return gas temp. 65°F for Evaporator Temp. > 20°F, 5°F sub-cooling

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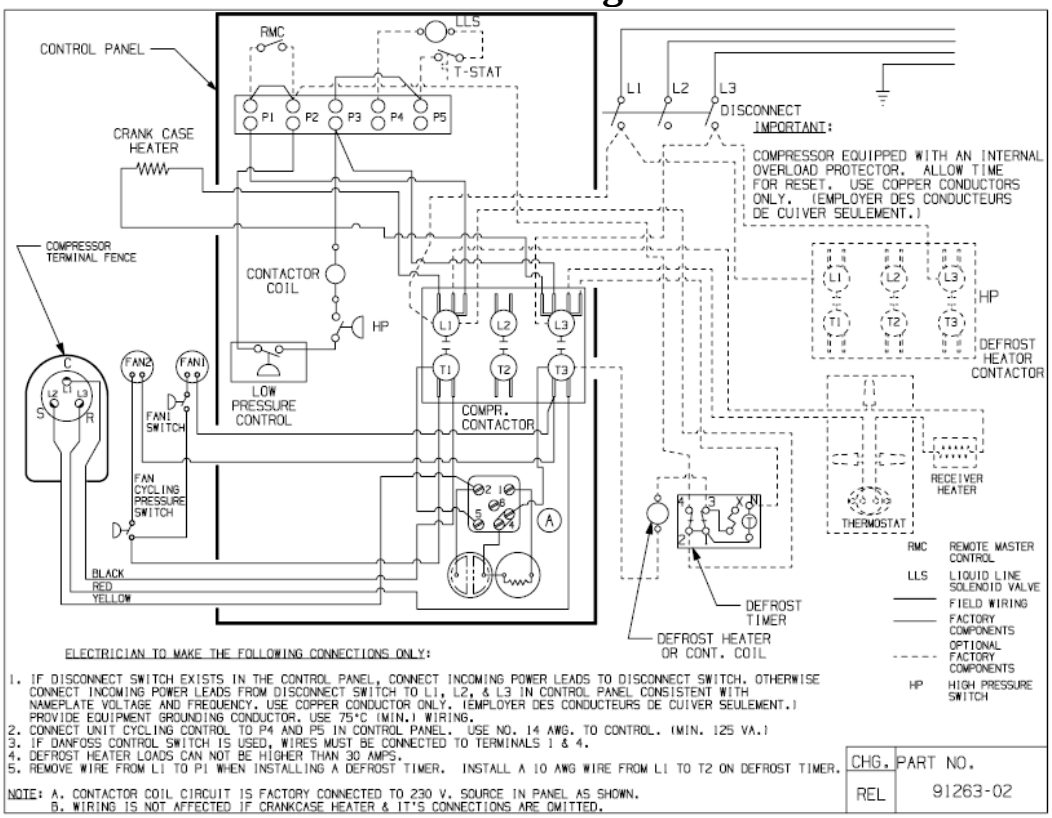
Specifications/ Parts:

Model	AWA9514ZXNXF
Unit Bill of Material	2B3266-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	-10° to 45°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	17.2
Max. Fuse Size (amps)	25
Compressor Model	AWA9512ZXN
Comp. Bill of Material	AW611FT-099-P2
Compressor RLA/LRA	12.4 / 60.0
Overload	INTERNAL
Relay	820ARR3J50
Run Capacitor	85PR370F17
Run Capacitor Rating	35MFD 370V(M)VDE
Start Capacitor	85PS330D16
Start Capacitor Rating	130-156 MFD 330V VDE
Contactor	91014
Unit Drawing	DGU1918-58
Wiring Diagram	91263-02

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-2
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50855-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	N/A
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
CONTACTOR COIL
HP
LOW PRESSURE CONTROL
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
COMPR. CONTACTOR
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
T1 T2 T3
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
BLACK
RED
YELLOW
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. REMOVE WIRE FROM L1 TO P1 WHEN INSTALLING A DEFROST TIMER. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. REL
PART NO. 91263-02